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NOTICE OF ALLOWANCE AND FEE(S) DUE

1444

7590

07/08/2010

BROWDY AND NEIMARK, P.L.L.C. 624 NINTH STREET, NW SUITE 300 WASHINGTON, DC 20001-5303 EXAMINER

KHAN, MEHMOOD B

ART UNIT PAPER NUMBER

2617

DATE MAILED: 07/08/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/551,896	10/10/2006	Jurgen Beyer	BEYER1	3431

TITLE OF INVENTION: METHOD FOR ANALYZING THE INTERFERENCE AND SUPPLY SITUATION IN UMTS SUB-NETWORKS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	10/08/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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If the SMALL ENTITY is shown as NO:

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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624 NINTH STE SUITE 300					Cer	tificate	of Mailing or Transn	nission deposited with the United t class mail in an envelope above, or being facsimile tte indicated below.
WASHINGTON	N, DC 20001-5303							(Depositor's name)
								(Signature)
								(Date)
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10/551,896	10/10/2006	Walke the important	Jurgen Beyer	sz cin		na atu	BEYER1	3431
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nonprovisional	NO	\$1510	\$300		\$0		\$1810	10/08/2010
EXAM	IINER	ART UNIT	CLASS-SUBCLASS	5				
KHAN, ME	HMOOD B	2617	455-570000					
Change of correspondence address or indication of "Fee Address" (37 FR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			(1) the names of u or agents OR, alter (2) the name of a registered attorney 2 registered patent	ng on the patent front page, list es of up to 3 registered patent attorneys R, alternatively, e of a single firm (having as a member a tetroney or agent) and the names of up to patent attorneys or agents. If no name is me will be printed. 1 2 3				
PLEASE NOTE: Unl recordation as set fort (A) NAME OF ASSIG	less an assignee is ident h in 37 CFR 3.11. Comp GNEE		data will appear on t T a substitute for filing (B) RESIDENCE: (C	he pa g an a	tent. If an assignous signment. and STATE OR C	OUNT	RY)	ocument has been filed for up entity
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	tus (from status indicated is SMALL ENTITY statu	,	☐ b. Applicant is no	long	er claiming SMAI	L EN	TITY status. See 37 CF	FR 1.27(g)(2).
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10/551,896	10/10/2006	Jurgen Beyer	BEYER1	3431	
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BROWDY AND	NEIMARK, P.L.L.C	KHAN, MEHMOOD B			
624 NINTH STREET, NW			ART UNIT	PAPER NUMBER	
SUITE 300					

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 252 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 252 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)					
	10/551 906	BEYER ET AL.					
Notice of Allowability	10/551,896 Examiner	Art Unit					
	 	00.47					
	MEHMOOD B. KHAN	2617					
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this or other appropriate communical GHTS. This application is subjection	application. If not included attorn will be mailed in due course. THIS					
1. This communication is responsive to <u>04/05/2010</u> .							
2. The allowed claim(s) is/are 1.2 4-8 and 17.							
3. ☑ Acknowledgment is made of a claim for foreign priority ur a) ☑ All b) ☐ Some* c) ☐ None of the: 1. ☑ Certified copies of the priority documents have	e been received.						
2. Certified copies of the priority documents have	• • •						
3. Copies of the certified copies of the priority do	cuments have been received in t	this national stage application from the					
International Bureau (PCT Rule 17.2(a)).							
* Certified copies not received:							
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		ply complying with the requirements					
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give							
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.							
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached							
1) ☐ hereto or 2) ☐ to Paper No./Mail Date							
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the	ne Office action of					
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t							
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT							
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. Notice of Inform	al Patent Application					
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summ						
3. Information Disclosure Statements (PTO/SB/08),	Paper No./Mail 7. ⊠ Examiner's Ame	Date endment/Comment					
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit	ement of Reasons for Allowance						
of Biological Material 9. ☐ Other							
/M. B. K./							
Examiner, Art Unit 2617							

DETAILED ACTION

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Jay M. Finkelstein (Reg. No. 21,082) on 07/02/2010. The application has been amended as follows: **Independent Claim 1** has been amended as shown below.

Claims 1, 2, 4-8 and 17 have been numbered 1-8 respectively. Claims 15 and 16 have been cancelled as per the interview with the Applicant's representative.

Claim 1: (Currently amended) A method for analyzing the interference and coverage situation in a UMTS subnetwork having a plurality of base stations, each base station having an assigned scrambling code SC, comprising the steps:

acquiring measurement data with a measuring instrument within specified area elements of a defined area, wherein, in each area element, the measurement data including the received signal power of at least one downlink pilot channel of multiple base stations that can be received in this area element, and the total background noise power in the analyzed frequency band, said step of acquiring being carried out only while the subnetwork is without traffic load, and wherein the measurement data includes a received pilot channel power Ec, a total background noise power lo present in a given frequency band of 5 MHz, and a ratio Ec/lo, which thus define the measured power of the pilot channel in relation to total interference signal power;

detecting the scrambling code SC of each base station with the measuring instrument;

allocating the acquired measurement data to a base station via a detected scrambling code SC assigned to which base station;

identifying one of the base stations as a Best Server, based on the acquired measurement data; and

preparing an interference matrix based on the acquired measurement data, wherein for the preparation of the interference matrix for each area element, base stations having a power lying in a 10 dB window below the power of the Best Server are registered as interferers, and base stations that are necessary for a Soft Handover, SHO, are not rated as interferers, wherein the interference matrix reflects a statement regarding the interference relationship of each base station with other base stations.

said Ec being determined after correlation reception by considering an orthogonality factor of one rake finger.

Claim 15: (Cancelled).

Claim 16: (Cancelled).

Allowable Subject Matter

Claims 1, 2, and 4-8 are allowed. The following is an examiner's statement of reasons for allowance: Consider independent claim 1, the best prior art of record found during the examination of the present application are: O'Byrne et al. (US 6,549,781), Plehn (US 5,839,074), Li et al. (US 2002/0086679), and Vadgama (US 7,277,709).

Compared to the present application neither of the above references neither alone or in combination disclose the technical features of the claimed invention in

Application/Control Number: 10/551,896 Page 4

Art Unit: 2617

context or as a whole. Hence, the present application is allowable. Accordingly, Applicant's invention is allowed for these reasons and the reasons stated by the Applicant in the Amendment/Remarks. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any response to this Office Action should be faxed to (571) 273-8300 or mailed to:

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Hand-delivered responses should be brought to:

Customer Service Window Randolph Building 401 Dulany Street Alexandria, VA 22314

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MEHMOOD B. KHAN whose telephone number is (571)272-9277. The examiner can normally be reached on Monday - Friday 8:30 am - 5:00 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lester Kincaid can be reached on 571-272-7922. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

/M. B. K./

Examiner, Art Unit 2617

/LESTER KINCAID/ Supervisory Patent Examiner, Art Unit 2617